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PATENT SPECIFICATION

588,386



Application Date: Feb. 14, 1945.

No. 3703/45.

Complete Specification Left: Nov. 28, 1945.

Complete Specification Accepted: May 21, 1947.

PROVISIONAL SPECIFICATION

Improvements in Containers

We, PATON, CALVERT AND COMPANY LIMITED, a British Company, of 201, Binns Road, Old Swan, Liverpool, 13, in the County of Lancaster, and WALTER PATON, a British Subject, of the said Company's address, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in containers, especially for containing fine powder such as talcum. In these containers it is usual to provide a large filling orifice, a perforated sprinkler and an imperforate cap. The object of the present invention is to provide a simplified construction.

The invention consists in a container having a metal top with an annular neck smaller than the top, a perforated top to fit over said neck with means to snap it in position, and an imperforate cap to fit removably over said perforated top. Preferably the annular neck is provided with an external groove to receive a perforated disc 25 having a spring depending flange to snap

into the said groove.

The invention is described by way of example in the accompanying drawings, in which:—

Fig. 1 is a vertical section with inner 30 and outer caps in position, while

Figs. 2—4 are perspective views of the components ready for assembly.

In these drawings a cylindrical cardboard (or metal) body 1 is provided with a metal top 2 having an annular neck 3 35 which is inwardly turned over. 4 is the central hole for filling and 5 is a groove as shown more clearly in Fig. 4. Fig. 3 shows a snap-on lid 6 having perforations, 40 while 7 is a friction cap.

The body is closed at the bottom by a metal disc. The container is filled through the large orifice 4, the sprinkler top 6 is then snapped on to the flange 3 and the 45 cap 7 is removably placed in position.

Dated this 12th day of February, 1945.

W. P. THOMPSON & CO.,

12, Church Street, Liverpool, 1,
Chartered Patent Agents.

COMPLETE SPECIFICATION

Improvements in Containers

We, PATON, CALVERT AND COMPANY LIMITED, a British Company, of 201, Binns Road, Old Swan, Liverpool, 13, in the County of Lancaster, and WALTER PATON, a British Subject, of the said Company's address, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in containers, especially for containing fine powder such as talcum.

In these containers it is usual to provide a large filling orifice, a perforated sprinkler and an imperforate cap. The object of the present invention is to provide a simplified construction.

Cap closures for containers are known in which a cap has either a plurality of dependent fingers or a lower axially slitted

rim so that it may be snapped over a flange on a container mouth. 70

According to the present invention a container having an opening at one end is closed by a perforate cap having an uninterrupted rim which can snap over a flange around the said opening.

The invention is further described with reference to the drawings accompanying the provisional patent application, in which:— 75

Fig. 1 is a vertical section with inner and outer caps in position, while 80

Figs. 2—4 are perspective views of the components ready for assembly.

In these drawings a cylindrical cardboard (or metal) body 1 is provided with a metal top 2 having an annular neck 3 85 the edge of which is inwardly turned over. 4 is the central hole for filling and 5 is a groove as shown more clearly in Fig. 4.

[Price 1/-]

Fig. 3 shows a snap-on lid 6 having perforations, while 7 is a detachable closure cap.

The body is closed at the bottom by a metal disc. The container is filled through the large orifice 4. The sprinkler cap 6 is then snapped on to the neck 3.

The uninterrupted inner edge of the perforate cap 6 is of slightly smaller diameter than the external diameter of the flange 8 around the filling opening 4 and engages in the groove of the neck 5. The cap 7 is removably placed in position and fits frictionally to the neck of said container below said perforate cap where this neck, as shown in Figure 4, is of greater diameter than the flange 8.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:

1. A container having an opening at one end closed by a perforate cap having

an uninterrupted rim which can snap over 25 a flange around the said opening.

2. A container, the body of which has a neck provided with a filling opening, a groove being disposed below the rim of the neck for the acceptance of the lower 30 uninterrupted rim of a perforated cap, which rim is of slightly smaller internal diameter than the external diameter of the rim of the neck to snap into the groove below it.

3. A container as claimed in claim 1, in which a detachable closure cap fits frictionally to the neck of said container below said perforate cap to enclose the same.

4. A container constructed as particularly described with reference to the drawings accompanying the provisional specification.

Dated this 27th day of November, 1945.
W. P. THOMPSON & CO.,
12, Church Street, Liverpool, 1,
Chartered Patent Agents.

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[This Drawing is a reproduction of the Original on a reduced scale.]

FIG 1

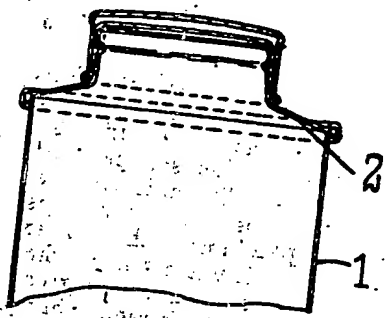


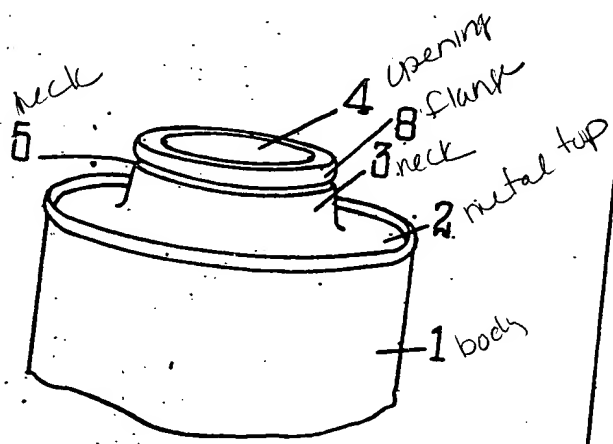
FIG 2



FIG 3



FIG 4



1990	1991
1992	1993
1994	1995

[illegible]

4500 10

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1010 spectrophotometer.

[illegible][illegible][illegible]